

## WEDNESDAY 5 JUNE 2013

09:00-09:30	REGISTRATION, Room 00.10	
09:30-09:40	OPENING REMARKS, Room 02.28	
09:40-10:30	<p>KEYNOTE LECTURE, Room 02.28 (<i>chair tba</i>)</p> <p><b>Benefits from sport for individuals and communities</b> Professor David Forrest, University of Salford (UK)</p>	
10:35-11:35	<p>PARALLEL SESSION W1A <i>Room 00.85 (chair tba)</i></p> <p><b>The effect of fatigue from previous matches in Grand Slam Tennis</b> Dries Goossens, Jurgen Kempeneers and Frits Spieksma</p> <p><b>Modelling and optimisation of the sport and exercise training process</b> Phil Scarf and Mansour Sharahili</p> <p><b>A Stochastic Analysis of Table Tennis</b> Christophe Ley, Yves Dominicy and Yvik Swan</p>	<p>PARALLEL SESSION W1B <i>Room 01.85 (chair tba)</i></p> <p><b>Integer Programming and Sport Rankings</b> Christian Raack, Annie Raymond, Thomas Schlechte and Axel Werner</p> <p><b>A Statistical Model for Prediction of National Football League (NFL) Fantasy Points</b> Michael Schuckers and Cris Ippolite</p> <p><b>Scheduling the German Basketball League</b> Stephan Westphal</p>
11:35-12:00	COFFEE BREAK, Room 00.10	
12:00-13:00	<p>PARALLEL SESSION W2A <i>Room 00.85 (chair tba)</i></p> <p><b>Improved execution times by specialized data-structures and algorithms for scheduling problems</b> Pieter Audenaert, Didier Colle, Mario Pickavet and Piet Demeester</p> <p><b>Dynamic opponent-dependent and position-dependent player ratings in the AFL</b> Jonathan Sargent and Anthony Bedford</p> <p><b>Significance of trailing at the end of the first half in the WNBA</b> U. Aytun Ozturk</p>	<p>PARALLEL SESSION W2B <i>Room 01.85 (chair tba)</i></p> <p><b>Home Advantage</b> George Foulds, Michael Wright and Roger Brooks</p> <p><b>Team performance in Italian Serie A</b> Fiona Carmichael, Giambattista Rossi and Dennis Thomas</p> <p><b>A Basic Course on Mathematics in Sport</b> Annette Pilkington</p>
13:00-14:20	LUNCH, <i>Alma restaurant</i>	

14:20-15:20	<p>PARALLEL SESSION W3A <i>Room 00.85 (chair tba)</i></p> <p><b>Probability calculation for tournament format of the 2013 World Baseball Classic</b> Nobuyoshi Hirotsu</p> <p><b>Advanced Putting Metrics in Golf</b> Tim Swartz</p> <p><b>Relative importance of the offensive and defensive efficiencies in FIVB Men's Volleyball World League</b> Elsuida Kondo, Raymond T. Stefani and Anthony Bedford</p> <p><b>Metaheuristic Optimisation of Parameterised Betting Exchange Strategies</b> Polyvios Tsirimpas and William Knottenbelt</p>	<p>PARALLEL SESSION W3B <i>Room 01.85 (chair tba)</i></p> <p><b>Multivariate Analysis of Heptathlon Data</b> Aimee Murphy and Penelope Bidgood</p> <p><b>The intensity of sports: an economic analysis</b> Andy Vekeman and Michel Meulders</p> <p><b>Transfer values and performance in international football</b> Thomas Peeters</p> <p><b>Match significance: measurement and relevance</b> Ruud Koning</p>
15:20-15:50	COFFEE BREAK, <i>Room 00.10</i>	
15:50-17:10	<p>PARALLEL SESSION W4A <i>Room 00.85 (chair tba)</i></p> <p><b>Betting Markets and Strategies</b> Tom Flowerdew, Kevin Glazebrook and Chris Kirkbride</p> <p><b>2012 UEFA Euro Efficiency Evaluation based on Market's Expectations</b> Luana Brandão, Fernando Andrade and João Carlos Soares de Mello</p> <p><b>The Application of Statistical Modelling to Elite Players' Perceptions of Football Playing Surfaces</b> Alun Owen, Jonathan Roberts, Andy Harland, Paul Osei-Owusu and Aimee Smith</p>	<p>PARALLEL SESSION W4B <i>Room 01.85 (chair tba)</i></p> <p><b>Scheduling a Sports League with Divisional and Round-robin Play</b> Jeffrey Larson and Mikael Johansson</p> <p><b>Scheduling Major League Baseball's Umpires</b> Michael Trick</p> <p><b>The least squares method and Swiss system tournament rankings</b> Laszlo Csato</p>
17:30-19:30	Guided walk in Leuven, <i>City Hall</i>	
21:00-23:00	Bar Quiz, <i>Domus Brewery</i>	

## THURSDAY 6 JUNE 2013

09:00-10:20	<p><b>PARALLEL SESSION T1A</b> <i>Room 00.85 (chair tba)</i></p> <p><b>Quantitative Models for Retirement Risk in Professional Tennis</b> Adam Cutmore and William Knottenbelt</p> <p><b>Time as a measurement unit in tennis</b> Marcelo Albamonte, Flavia Bonomo and Franco Davin</p> <p><b>A closer look at the independence between points of the top four male players</b> Geoff Pollard</p> <p><b>Developing an improved tennis ranking system</b> David Irons, Stephen Buckley and Tim Pauden</p>	<p><b>PARALLEL SESSION T1B</b> <i>Room 01.85 (chair tba)</i></p> <p><b>Is there gender discrimination on behalf of Dutch TV viewers? An analysis of the London 2012 Olympic Games TV ratings</b> Daam Van Reeth</p> <p><b>Evaluating Regional Balance in the NCAA Men's Basketball Tournament using the Tournament Selection Ratio</b> John Trono</p> <p><b>Assessing efficiency and setting benchmarks for NBA teams through DEA and DMU clustering</b> Laura Alves, Hugo Kramer, Pamela Tschaffon and João Carlos Soares de Mello</p> <p><b>Data Envelopment Analysis to Support the Tactic Formulation of Brazilian Football Teams</b> Carlos André Faccini Dos Santos, Lidia Angulo Meza and João Carlos Soares de Mello</p>
10:20-10:45	<p><b>COFFEE BREAK, Room 00.10</b></p>	
10:45-11:45	<p><b>PARALLEL SESSION T2A</b> <i>Room 00.85 (chair tba)</i></p> <p><b>Performance Inequality at the Olympic Games</b> Elmer Sterken</p> <p><b>Measuring competitive balance: the case of European premiership rugby union</b> Phil Scarf and Peter Williams</p> <p><b>Between-seasons Competitive Balance in European Football: Review of Existing and Development of Specially Designed Indices</b> Vasileios Manasis and Ioannis Ntzoufras</p>	<p><b>PARALLEL SESSION T2B</b> <i>Room 01.85 (chair tba)</i></p> <p><b>Stochastic analysis of some two-person sports</b> Davy Paindaveine and Yvik Swan</p> <p><b>A comparison of the Masters Scoring System and the Knock-Out Scoring System</b> Graham Pollard and Geoff Pollard</p> <p><b>Sensitivity of court-side in tennis</b> Michelle Viney, Anthony Bedford and Elsuida Kondo</p>
11:50-12:40	<p><b>KEYNOTE LECTURE, Room 02.28 (chair tba)</b></p> <p><b>Towards the construction of elimination tournaments through Bayesian optimal design</b> Professor Mark Glickman, Boston University School of Public Health (USA)</p>	
12:40-14:00	<p><b>LUNCH, Alma restaurant</b></p>	

14:00-15:20	<p>PARALLEL SESSION T3A <i>Room 00.85 (chair tba)</i></p> <p><b>Estimation of anthropometrical and inertial body parameters</b> Jérôme Bastien, Yoann Blache and Karine Monteil</p> <p><b>Proposal for an Evaluation Model of Olympic Legacies: an adaptation of Balanced Scorecard</b> Juliana Leal, Nissia Bergiante and João Carlos de Mello</p> <p><b>A DEA Evaluation and Financial Resources Reallocation for Brazilian Olympic Sports regarding their results in the 2011 Pan-American Games</b> Renato Pescarini Valério and Lidia Angulo Meza</p> <p><b>Assignment of swimmers to events in a multi-team meeting for team global performance optimization</b> Simona Mancini</p>	<p>PARALLEL SESSION T3B <i>Room 01.85 (chair tba)</i></p> <p><b>A Model Based Ranking System for Soccer Teams</b> (Chang Wang)</p> <p><b>Time-varying rankings in sport</b> Ian McHale and Rose Baker</p> <p><b>It is Harder, not Easier, to Predict the Winner of the Champions League</b> Jeroen Schokkaert and Johan Swinnen</p> <p><b>Inferring the score of a tennis match from in-play betting exchange markets</b> Xinzhuo Huang, William Knottenbelt, Demetris Spanias and James Wozniak</p>
15:20-15:50	COFFEE BREAK, <i>Room 00.10</i>	
15:50-17:10	<p>PARALLEL SESSION T4A <i>Room 00.85 (chair tba)</i></p> <p><b>Market making with a reverse Kelly strategy</b> Edmund Noon and William Knottenbelt</p> <p><b>Modelling goal arrival times in Association Football</b> Dimitris Karlis and Ioannis Ntzoufras</p> <p><b>A mixed effects model for identifying the goal scoring ability of footballers</b> Ian McHale and Lukasz Szczepanski</p> <p><b>Rating test cricket players</b> Sohail Akhtar and Philip Scarf</p>	<p>PARALLEL SESSION T4B <i>Room 01.85 (chair tba)</i></p> <p><b>Scheduling the South American qualifiers for the Football World Cup</b> Guillermo Durán and Mario Guajardo</p> <p><b>An Olympic ranking based on sequential use of ordinal multicriteria methods</b> Silvio Gomes Júnior, João Carlos Soares de Mello and Lidia Angulo Meza</p> <p><b>Crux 25 - Circle Packing</b> Joris Kinable and Tony Wauters</p> <p><b>The Merits of Ranking in the Game of Hurling</b> Niall Fitzgerald</p>
19:00-22:00	Conference dinner, <i>Faculty Club</i>	

## FRIDAY 7 JUNE 2013

09:00-10:20	<b>PARALLEL SESSION F1A</b> <i>Room 00.85 (chair tba)</i> <p><b>Detecting Corruption in Football</b>            James Reade</p> <p><b>A Virtual Coach for Fantasy Soccer using Mathematical Programming</b>            Flavia Bonomo, Guillermo Duran and Javier Marenco</p> <p><b>Using Probabilistic Models to Simulate Tennis Matches, with Applications to Betting Strategies</b>            Viktoras Mogilenco and Gordon Hunter</p> <p><b>Markov Chain Volleyball</b>            Marco Ferrante and Giovanni Fonseca</p>	<b>PARALLEL SESSION F1B</b> <i>Room 01.85 (chair tba)</i> <p><b>Model of joint displacement using sigmoid function. Experimental approach for planar pointing task and squat jump</b>            Thomas Creveaux, Jérôme Bastien, Clément Villars and Pierre Legreneur</p> <p><b>The Macbeth Method for Ranking Olympic Sports: a Complementary Analysis for the DEA Efficiency</b>            João Carlos Soares de Mello, Juliana Benicio, Livia Bragança and Vinícius Guimarães</p> <p><b>Intelligent computational optimisation of sport skills</b>            Jonathan Wright and Ivan Jordanov</p> <p><b>Contingent valuation of a classic cycling race</b>            Andy Vekeman, Michel Meulders, Alain Praet, Jan Colpaert and Tom Van Puyenbroeck</p>
10:20-10:45	<b>COFFEE BREAK, Room 00.10</b>	
10:45-11:45	<b>PARALLEL SESSION F2A</b> <i>Room 00.85 (chair tba)</i> <p><b>Fair Referee Assignment for the Italian Soccer SERIE A</b>            Simona Mancini and Andrea Isabelllo</p> <p><b>Optimization modeling for analyzing fantasy sport games</b>            Jeroen Beliën, Dries Goossens and Daam Van Reeth</p> <p><b>Are Soccer Schedules Robust?</b>            Fabrice Talla Nobibon and Dries Goossens</p>	<b>PARALLEL SESSION F2B</b> <i>Room 01.85 (chair tba)</i> <p><b>ODI cricket batting: characterizing batsmen performance using 'tipping points'</b>            Uday Damodaran</p> <p><b>Using principle component analysis to investigate the effect of golfer kinematics on measures of performance</b>            Aimee Smith, Jon Roberts and Steph Forrester</p> <p><b>Changes in performance in sport</b>            George Foulds, Roger Brooks and Michael Wright</p>
11:50-12:40	<b>KEYNOTE LECTURE, Room 02.28 (chair tba)</b> <p><b>Graph coloring and sports scheduling</b>            Professor Dominique de Werra, École Polytechnique Fédérale de Lausanne (Switzerland)</p>	
12:40-14:00	<b>LUNCH, Alma restaurant</b>	

14:00-15:00	<p>PARALLEL SESSION F3A <i>Room 00.85 (chair tba)</i></p> <p><b>Using robust bilinear models to estimate orienteer's performance</b> Sofia Villers, Karen Vines and Kevin McConway</p> <p><b>The PEAST Algorithm in Sports Scheduling - Evolution of the Major Finnish Hockey League Schedules</b> Nico Kyngäs, Dries Goossens, Kimmo Nurmi and Jari Kyngäs</p> <p><b>Going downhill fast: the importance of descending skills in mountain running</b> Anthony Kay</p>	<p>PARALLEL SESSION F3B <i>Room 01.85 (chair tba)</i></p> <p><b>The London Olympics in Perspective: Athletics, Swimming and Home Nation Medal Advantage</b> Ray Stefani</p> <p><b>Career lengths and age of retirement of ATP singles players during the Open Era</b> Stephanie Kovalchik</p> <p><b>Tennis Player Ranking using Quantitative Models</b> Demetris Spanias and William Knottenbelt</p>
15:00-15:15	CLOSING REMARKS, <i>Room 02.28</i>	